

Claims

What is claimed:

1. A digital video signal processing apparatus comprising:
 - (a) means for receiving from a digital video disc player a
5 program content stream representative of a programmed event, said
program content stream including data in a compressed format;
 - (b) means for decoding said program content stream to generate
a video signal suitable for display;
 - (c) means for receiving from said digital video disc player digital
10 data suitable for display, said digital data being associated with said
program content stream; and
 - (d) means for combining said digital data received from said
digital video disc player and said video signal to produce a signal
representative of a combined image suitable for display.
- 15 2. The digital video signal processing apparatus of claim 1 wherein
said digital data is representative of a DVD subpicture associated with
said program content stream.
- 20 3. The digital video signal processing apparatus of claim 2 further
comprising
 - (a) means for receiving subsequent digital data suitable for
display, said subsequent digital data being representative of an updated
portion of said previously received digital data; and
 - 25 (b) means for updating said combined image with said received
subsequent digital data to produce an updated combined image suitable
for display, wherein said updating means is responsive to user input
received by said digital video disc player.
- 30 4. The digital video signal processing apparatus of claim 3 wherein
said digital data is bit-mapped data.

5. In combination in a system for controlling a digital video disc player interconnected by a digital bus to a digital television, the digital video disc player performing the steps of:

- (a) processing a program content stream including data in a compressed format received from a digital video disc received in said digital video disc player to generate an audio/video program stream and a subpicture stream;
- (b) transmitting, via an isochronous channel of said digital bus to said digital television, said audio/video program stream;
- (c) processing said subpicture stream to generate digital data, said digital data being suitable for display; and
- (d) transmitting, via an asynchronous channel of said digital bus to said digital television, said digital data.

6. The combination of Claim 5 further comprising the steps of:

- (a) receiving a user initiated command in response to said displayable digital data; and
- (b) generating an updated subpicture stream in response to said user initiated command.

7. The combination of Claim 5 wherein said audio/video stream is configured in an MPEG program stream format.

8. The combination of Claim 7 further comprising the step of:

- converting said audio/video stream from an MPEG program stream to an MPEG transport stream.

9. A digital video signal processing apparatus performing the steps of:

- (a) receiving from a digital video disc player a program content stream representative of a programmed event, said program content stream including data in a compressed format;
- (b) decoding said program content stream to generate a video signal suitable for display;
- (c) receiving from said digital video disc player bit-map data representative of a subpicture associated with said program content stream, said bit-map data being suitable for display; and
- (d) combining said bit-map data received from said digital video disc player and said program content stream to produce a signal representative of a combined image suitable for display.

10. The digital video signal processing apparatus of Claim 9 further comprising the steps of:

- 5 (a) receiving subsequent bit-map data representative of an updated portion of said previously received subpicture; and
- (b) updating, in response to a user initiated command received by said digital video disc player, said combined image with said received subsequent bit-map data to produce an updated combined image suitable for display.

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11. A digital video signal processing apparatus comprising:

- (a) means for receiving from a storage means a compressed digital data stream;
- (b) means for decoding said compressed digital data stream to
15 generate a video signal suitable for display;
- (c) means for receiving from said storage means bit-map data associated with said compressed digital data stream; and
- (d) means for combining said bit-map data received and said
20 video signal to produce a signal representative of a combined image suitable for display.